

MONTHLY WEATHER REVIEW,

SEPTEMBER, 1877.

WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

INTRODUCTION.

The present REVIEW for the month of September depends upon all data received up to the 14th of October from the Canadian Meteorological Service, the United States Navy, the Army Post Surgeons, Voluntary Observers and the United States Signal Service. The most interesting features have been: First, the cyclones of the Gulf of Mexico and of the Caribbean Sea. Second, the drought and prairie fires of certain regions. Third, the universal high temperature.

BAROMETRIC PRESSURE.

In General.—The general distribution of atmospheric pressure for the month is shown by the isobars on Map No. II, from which it appears that the area of highest pressure, 30.05, covers the Middle Atlantic States and southern New England. In September, 1871, the area of highest pressure, 30.15, covered the greater part of the region from Missouri to the Alleghanies. In September, 1872, the highest pressure, 30.05, covered the South Atlantic States. In September, 1873 and 1874, the area of 30.05 to 30.10 covered the South Atlantic, East Gulf, and Middle Atlantic States. In September, 1875, the area 30.05 covered the South Atlantic and East Gulf States; but in September, 1876, the pressure of 30.05 is found only in a small portion of northern Louisiana. On the average, therefore, the pressures for 1877 have been below the normal in the Gulf States and in the extreme Northwest, but have agreed with the normals in the Middle Atlantic States.

Barometric Ranges.—The general range of pressure is shown by the following table, from which it appears that for the whole country a range of 1.06 inches has been recorded:

LOW AREAS.				HIGH AREAS.			
No.	Location.	Date.	Minimum Pressure.	No.	Location.	Date.	Maximum Pressure.
I	Mouth St. Lawrence.....	Sept. 1st, 7:35 a. m.....	29.56	I	Lower Missouri valley..	Sept. 2nd, 7:35 a. m.....	30.26
II	Southern Minnesota.....	Sept. 4th, 4:36 p. m.....	29.75	II	Lower St. Lawrence val.	Sept. 7th, 7:35 a. m.....	30.42
III	Missouri.....	Sept. 9, 7:35 a. m. 4:30 p. m.	29.61	III	Lower Missouri valley..	Sept. 17th, 7:35 a. m.....	30.31
IV	Manitoba.....	Sept. 11th, 4:35 p. m.....	29.44	IV	Middle Atlantic States..	Sept. 23rd, 7:35 a. m.....	30.36
V	Manitoba.....	Sept. 13th, 4:35 p. m.....	29.37				
VI	Louisiana.....	Sept. 18th, 4:35 & 11 p. m.	29.43				
VII	Nova Scotia.....	Sept. 21st, 11 p. m.....	29.45				
VIII	Minnesota.....	Sept. 21st, 4:35 p. m.....	29.62				
IX	Minnesota.....	Sept. 24th, 11 p. m.....	29.70				
X	Dakota.....	Sept. 26th, 4:35 p. m.....	29.60				
XI	Cape Hatteras.....	Sept. 29th, 4:35 p. m.....	29.66				
XII	Minnesota.....	Sept. 29th, 4:36 p. m.....	29.30				

The local barometric ranges have been as follows: *Large Ranges*—Bismarck, 1.01; Breckenridge, 0.95; Boise City, 0.96; North Platte, 1.00. *Small Ranges*—Cambridge City, Tex., 0.31; Corsicana, 0.36; Pilot Point, 0.38; San Francisco, 0.34; Santa Fe, 0.29; Shreveport, 0.32; San Antonio, 0.37; Vicksburg, 0.33.